SEQUENCE LISTING

<110> Garnaat, Carl W.
      Lowe, Keith S.
      Roth, Bradley A.

<120> ZmAxig1 Polynucleotides and Methods of
   Use

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<150> US 60/217,942
<151> 2000-07-13

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acgcacatga ccgcagtgcg cgcggggctg atcaagggaa agtgatcgg atg gag ctg     178
                                                       Met Glu Leu
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gag ctc ggg ctc gcg ccg ccg aac ccg cat cag ccg ctg gct gcc gcc     226
Glu Leu Gly Leu Ala Pro Pro Asn Pro His Gln Pro Leu Ala Ala Ala
   5                  10                  15

gcc gag ttc gtc ggt ctc ctc agc agc tcg gct ggc tcg tgc ggg aac     274
Ala Glu Phe Val Gly Leu Leu Ser Ser Ser Ala Gly Ser Cys Gly Asn
 20                  25                  30                  35

aag agg gtt ctc ggc gac gcg ttc ggg gcc gcc aag gcg gcc acg ctt     322
Lys Arg Val Leu Gly Asp Ala Phe Gly Ala Ala Lys Ala Ala Thr Leu
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ccg ctc ttc gtc tgc gag gat ggc gac gga ggc ggc ggc gac cgc gac     370
Pro Leu Phe Val Cys Glu Asp Gly Asp Gly Gly Gly Gly Asp Arg Asp
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cgc gac ggc gtc gtc gac cat gaa cag caa agc aac aat gta ccc agg     418
Arg Asp Gly Val Val Asp His Glu Gln Gln Ser Asn Asn Val Pro Arg
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Lys Lys Arg Leu Val Gly Trp Pro Pro Val Lys Cys Ala Arg Arg Arg
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agc tgc ggc ggc ggg tac gtg aag gtg aag ctg gaa ggg gtg ccc atc      514
Ser Cys Gly Gly Gly Tyr Val Lys Val Lys Leu Glu Gly Val Pro Ile
100                 105                 110                 115

ggg cgg aag gtg gac gtg tcc atc cac ggc tcg tac cag gag ctg ctc      562
Gly Arg Lys Val Asp Val Ser Ile His Gly Ser Tyr Gln Glu Leu Leu
                120                 125                 130

cgc acg ctc gag agc atg ttc cct tcg ggt aac caa caa gat cat gca      610
Arg Thr Leu Glu Ser Met Phe Pro Ser Gly Asn Gln Gln Asp His Ala
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gaa gac gag gtg gtg gtc tcg cac gag cgc cgc cgt cgc cat cct tat      658
Glu Asp Glu Val Val Val Ser His Glu Arg Arg Arg Arg His Pro Tyr
            150                 155                 160

gta gtc acc tac gag gac ggc gaa ggg gac tgg ttg ctc gtc gga gat      706
Val Val Thr Tyr Glu Asp Gly Glu Gly Asp Trp Leu Leu Val Gly Asp
        165                 170                 175

gat gtg ccg tgg gag gtc ttt gtc aag tca gtg aag cgg ctc aag ata      754
Asp Val Pro Trp Glu Val Phe Val Lys Ser Val Lys Arg Leu Lys Ile
180                 185                 190                 195

ctt gcg tag ccgacggtcg cgcctcaga gacgtcgtgt ggtccgtctc              803
Leu Ala  *


accaggatcg gagcagtgta gtactcctgg gcgtcatctg cgtaataacg ttgtttctgt   863
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Cys Gly Asn Lys Arg Val Leu Gly Asp Ala Phe Gly Ala Ala Lys Ala
        35                  40                  45
Ala Thr Leu Pro Leu Phe Val Cys Glu Asp Gly Asp Gly Gly Gly Gly
    50                  55                  60
Asp Arg Asp Arg Asp Gly Val Val Asp His Glu Gln Gln Ser Asn Asn
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Val Pro Ile Gly Arg Lys Val Asp Val Ser Ile His Gly Ser Tyr Gln
            115                   120                   125
Glu Leu Leu Arg Thr Leu Glu Ser Met Phe Pro Ser Gly Asn Gln Gln
        130                   135                   140
Asp His Ala Glu Asp Glu Val Val Val Ser His Glu Arg Arg Arg Arg
145                   150                   155                   160
His Pro Tyr Val Val Thr Tyr Glu Asp Gly Glu Gly Asp Trp Leu Leu
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Val Gly Asp Asp Val Pro Trp Glu Val Phe Val Lys Ser Val Lys Arg
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Leu Lys Ile Leu Ala
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acaatatttt tctaaattaa attaaaacta aaaatgacta aatttctaac accaacgaca     360
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tgtacggcta catcgaacat atacacgaga tgtctcgtgt gaatagagtc actaatgcct     180
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cataaatcca aagtaggagc ggtgcatgat gagaatcgct ctcagtactc gacataatga      660
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tag                                                                     3123


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<213> Zea mays

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<223> Designed oligonucleotide based upon the adapter
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<212> DNA
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<210> 19
<211> 763
<212> DNA
<213> Zea mays

<400> 19
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gcccgtgggt accgcatgca gggcggagac caccgcagcg tgggcggcgt ggctccctgc    360
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agctggtgca cgcgcgccac ctcgccggac gtcgccgtcg tcgtcggcat ggacttaacc    660
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<210> 20
<211> 622
<212> DNA
<213> Zea mays

<400> 20
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aatcggcgac ggcgacgatg gtccgggagc aggaccggct gatgccggtg ccaacgtgt    180
cccgcatcat gcgccaagtg ctgcctccgt acgccaagat ctccgacgac gcccangaag    240
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-8-

```
tnatccaaga attgctnttc ggaatttcat cacttncgtc ctggcgaggc gaaacgaagc      300
ggtgccacac cgagcgccgc aagaccgtca cctccgaaga catcgtgtgg gccatgagcc      360
gcctcggctt cgacgactac gtcgcgcccc tcggcgcctt cctccagcgc atgcgcgacn      420
acagcgaaca cggggggtgaa aacgcggcgg cctgcanggg gtngtggtcn cgccgcgggt      480
cgtctncttg gcgctcnctt gccgcaanag atgacaactt gcaccaaacg tctgccgggn      540
tcggaccaaa actnttccct gttgcaggaa tacccgtccn gggccnttcc cccccnaatc      600
caaccatttg gtttcccctt gc                                              622
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<210> 21
<211> 65
<212> PRT
<213> Zea mays

<400> 21

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            20                  25                  30
Xaa Ile Gln Glu Cys Val Ser Glu Tyr Ile Ser Phe Xaa Thr Xaa Glu
        35                  40                  45
Ala Asn Xaa Arg Cys Xaa Xaa Xaa Xaa Arg Lys Thr Xaa Xaa Xaa Glu
    50                  55                  60
Xaa
65
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